



# HS3 Data Catalog

Amber Emory, Dan Chirica, and Jim Doyle

# Roadmap

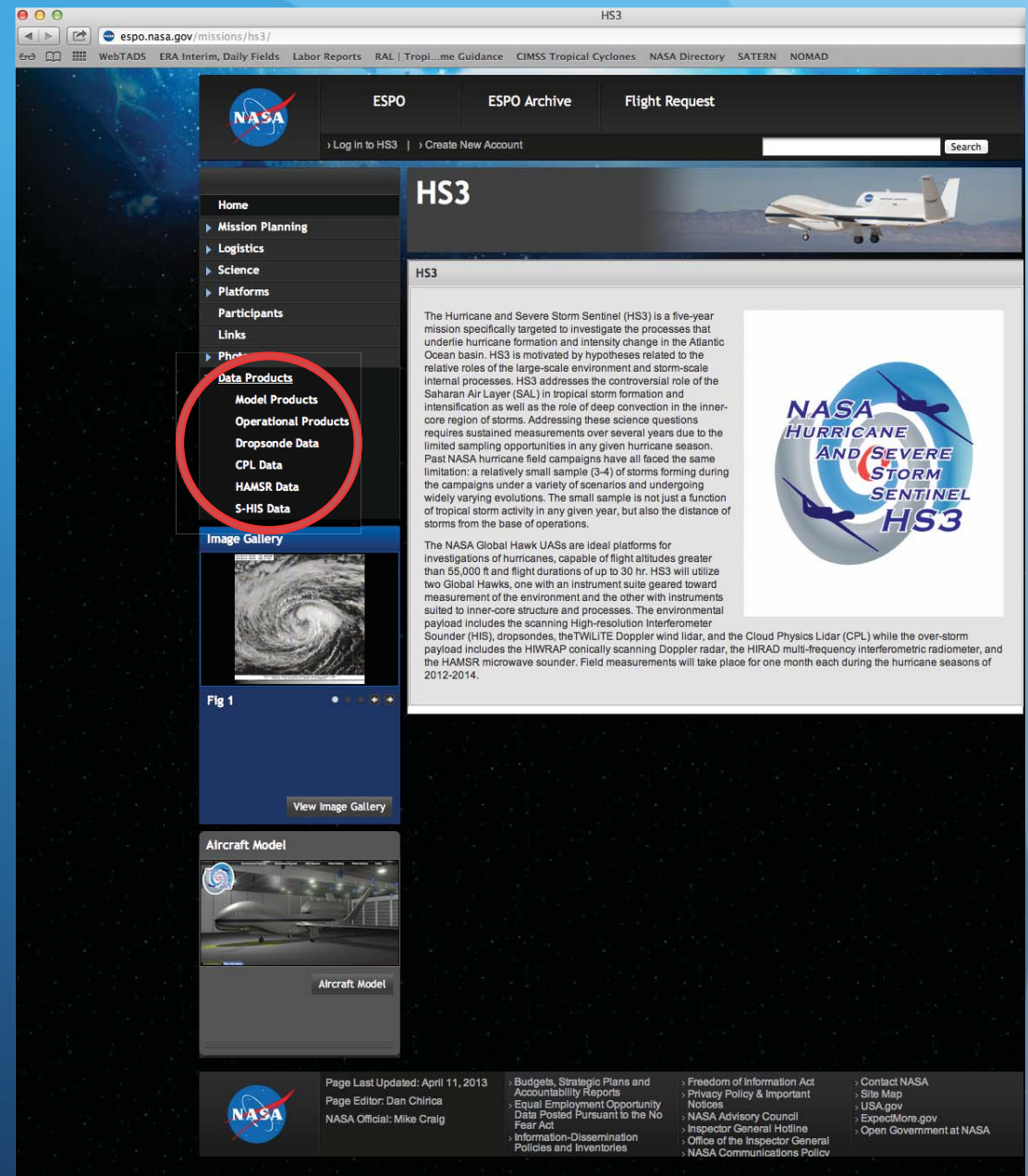
- What we planned
- What we did
  - Model Products: Examples from GMAO, NRL COAMPS TC, and SHIPS
  - Operational Products: Examples from NRL Tropics and CIMSS Brightness Temperatures and TOTs
  - Research (Instrument) Products
- What needs to improve for this year

# What we planned...

- Many items on PREDICT page are already provided on the ESPO HS3 website or through Mission Tools
- Provide archived images of Operational, Model, and Research (Instrument) Products from the ESPO HS3 website
- Ftp site housed at NASA GSFC (Emory) and front-end website administered from NASA Ames (Chirica)

# What we did...


- Operational Products
- Model Products
- Research Products



# Model Products

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    S-HIS Data


## HS3



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### Model Products

ECMWF
GMAO
Global Ensemble
NCEP EMC Track
NCEP GFS
NHC Composite Tracks
NRL COAMPS TC
NRL NOGAPS
Pouch Products
SHIPS



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Page Editor: Erin Justice  
NASA Official: Mike Craig

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	› Office of the Inspector General	› Open Government at NASA
	› NASA Communications Policy	



# Model Products Example: GMAO Dust AOT

GMAO provided GEOS-5 forecasts of Dust AOT out to 120 hours initialized 4X/day (00, 06, 12, 18 UTC) from Aug. 27 - Oct. 20, 2012

**HS3**

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**Model Products**

[ECMWF](#)

[GMAO](#)

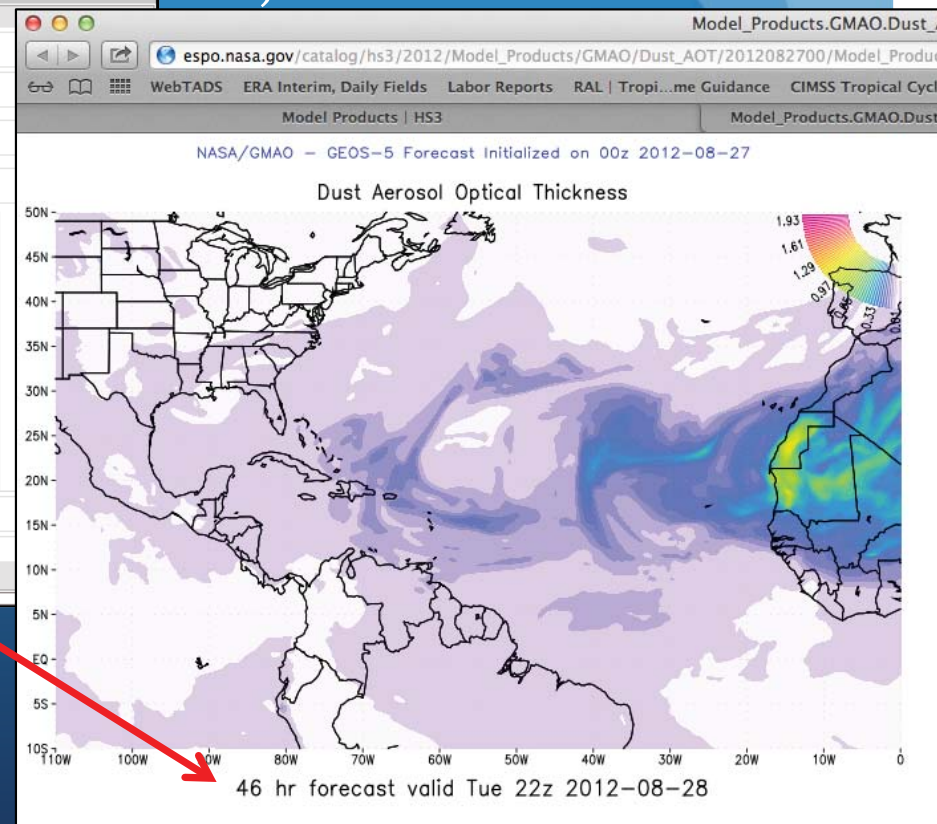
**Dust AOT**

**8/27/2012**

<a href="#">000hr</a>	<a href="#">001hr</a>	<a href="#">002hr</a>	<a href="#">003hr</a>	<a href="#">004hr</a>	<a href="#">005hr</a>	<a href="#">006hr</a>	<a href="#">007hr</a>	<a href="#">008hr</a>	<a href="#">009hr</a>	<a href="#">010hr</a>
<a href="#">011hr</a>	<a href="#">012hr</a>	<a href="#">013hr</a>	<a href="#">014hr</a>	<a href="#">015hr</a>	<a href="#">016hr</a>	<a href="#">017hr</a>	<a href="#">018hr</a>	<a href="#">019hr</a>	<a href="#">020hr</a>	<a href="#">021hr</a>
<a href="#">022hr</a>	<a href="#">023hr</a>	<a href="#">024hr</a>	<a href="#">025hr</a>	<a href="#">026hr</a>	<a href="#">027hr</a>	<a href="#">028hr</a>	<a href="#">029hr</a>	<a href="#">030hr</a>	<a href="#">031hr</a>	<a href="#">032hr</a>
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<a href="#">044hr</a>	<a href="#">045hr</a>	<a href="#">046hr</a>	<a href="#">047hr</a>	<a href="#">048hr</a>	<a href="#">049hr</a>	<a href="#">050hr</a>	<a href="#">051hr</a>	<a href="#">052hr</a>	<a href="#">053hr</a>	<a href="#">054hr</a>
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<a href="#">088hr</a>	<a href="#">089hr</a>	<a href="#">090hr</a>	<a href="#">091hr</a>	<a href="#">092hr</a>	<a href="#">093hr</a>	<a href="#">094hr</a>	<a href="#">095hr</a>	<a href="#">096hr</a>	<a href="#">097hr</a>	<a href="#">098hr</a>
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<a href="#">110hr</a>	<a href="#">111hr</a>	<a href="#">112hr</a>	<a href="#">113hr</a>	<a href="#">114hr</a>	<a href="#">115hr</a>	<a href="#">116hr</a>	<a href="#">117hr</a>	<a href="#">118hr</a>	<a href="#">119hr</a>	<a href="#">120hr</a>

**8/27/2012**

**8/27/2012**



# Model Products Example: NRL COAMPS TC

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## HS3

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### Model Products

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- 
- [NRL NOGAPS](#)
- [Pouch Products](#)
- [SHIPS](#)



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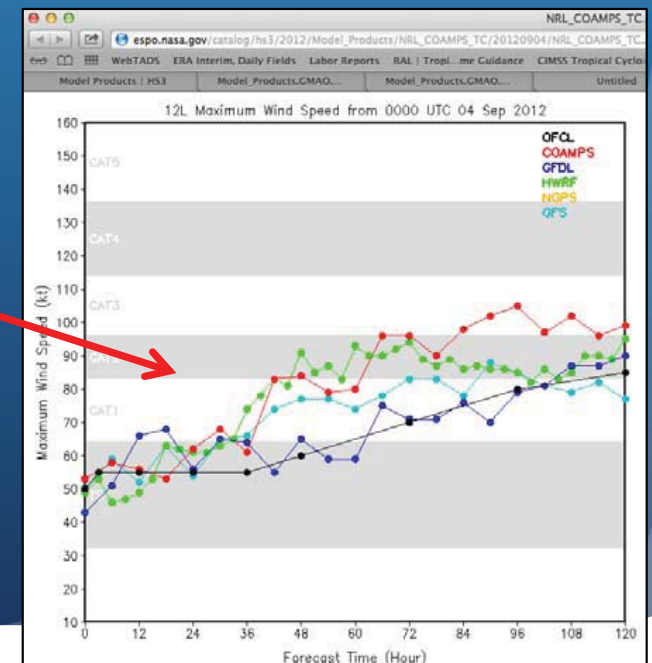
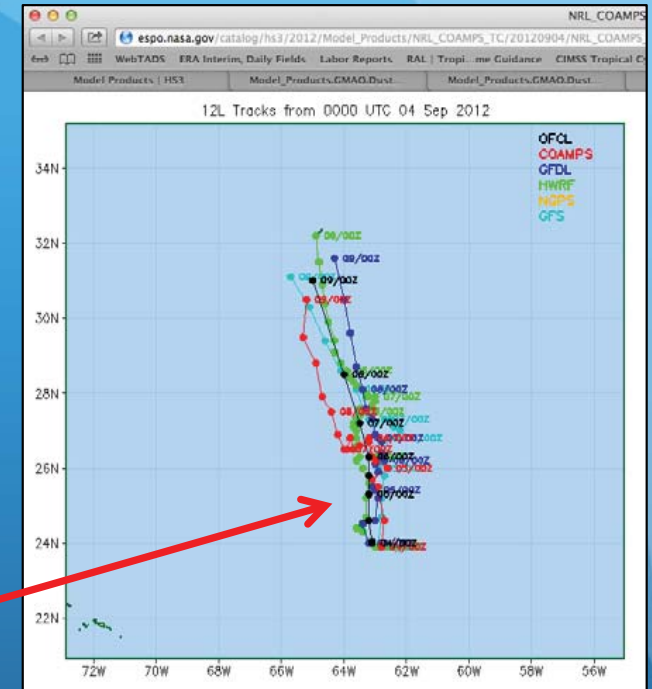
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Tracks

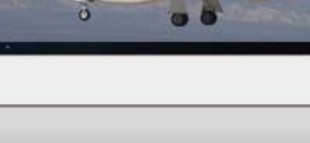
Forecasted Max Winds





## SHIPS provided Intensity Forecast for the Eastern Pacific as well as the Atlantic

# HS3



TIME (HR) 0 6 12 18 24 36 48 60 72 84 96 108 120

V (KT) NO LAND 55 55 54 52 51 51 51 51 51 51 51 51 51

V (KT) LAND 55 55 54 52 51 49 51 51 49 47 42 42 42

V (KT) LGE mod 55 55 55 55 55 55 55 55 55 55 54 52 51

Storm Type SUBT SUBT TROP TROP TROP TROP TROP TROP TROP TROP TROP TROP

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## Model Products

FORECAST TRACK FROM OFCI INITIAL HEADING/SPEED (DEG/KT):190/ 6 CK,CY: 0/ -5

12 HR MAX WIND: 55 PRESSURE OF SINKING LEVEL (HPa): 613 (MEAN=62.3)

GOOD IR BRIGHTNESS TEMP. STD DEV. 50-200 KM RAD: 14.1 (MEAN=14.5)

% GOOD IR PIXELS WITH T < -20 C 50-200 KM RAD: 58.0 (MEAN=65.0)

		INDIVIDUAL CONTRIBUTIONS TO INTENSITY CHANGE											
		6	12	18	24	36	48	60	72	84	96	108	120
SAMPLE MEAN CHANGE	1.	2.	3.	4.	6.	8.	9.	11.	12.	13.	14.	15.	16.
EST POTENTIAL	-1.	-3.	-4.	-5.	-8.	-9.	-10.	-11.	-12.	-13.	-14.	-15.	-16.
VERTICAL SHEAR MAG	1.	2.	3.	4.	4.	3.	1.	-1.	-3.	-5.	-7.	-8.	-2.
VERTICAL SHEAR ADJ	0.	0.	0.	-1.	-1.	0.	1.	1.	2.	2.	2.	2.	2.
VERTICAL SHEAR DIR	0.	-1.	-1.	-2.	-1.	0.	1.	3.	4.	6.	7.	8.	8.
PERSISTENCE	0.	-1.	-1.	-1.	-1.	-1.	-1.	-1.	0.	0.	0.	0.	0.
200/250 MB TEMP.	0.	0.	0.	1.	2.	3.	4.	5.	5.	6.	8.	9.	9.
200/250 MB RH	0.	0.	0.	0.	-5.	-7.	-9.	-12.	-14.	-17.	-19.	-21.	-21.
700-500 MB RH	0.	0.	0.	1.	2.	3.	2.	3.	2.	3.	2.	2.	2.
GFS VORTEX TENDENCY	0.	-1.	-2.	-3.	-6.	-3.	-4.	-5.	-6.	-10.	-9.	-9.	-9.
850 MB ENV VORTICITY	1.	2.	3.	4.	5.	6.	8.	9.	10.	10.	10.	9.	9.
200 MB DIVERGENCE	0.	-1.	-1.	-2.	-3.	-3.	-3.	-3.	-3.	-3.	-3.	-3.	-3.
850-700 T ADVEC	0.	0.	0.	1.	1.	1.	1.	0.	0.	0.	1.	2.	2.
ROMA STORM MOTION	0.	0.	0.	0.	-1.	-1.	-1.	-2.	-2.	-3.	-3.	-3.	-3.
SPREADING LEVEL PRES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DAYS FROM CLIM. PEAK	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GOES PREDICTORS	0.	0.	0.	-1.	-1.	-1.	-1.	-1.	-1.	-1.	-1.	-1.	-1.
OCEAN HEAT CONTENT	0.	0.	0.	0.	0.	-1.	-1.	-1.	-1.	-1.	-1.	-1.	-1.
TOTAL CHANGE	0.	-1.	-2.	-4.	-6.	-4.	-4.	-6.	-8.	-13.	-13.	-13.	-13.

**\*\* 2011 ATLANTIC RI INDEX AL142012 NADINE 09/21/12 12 UTC \*\***

12 HR PERSISTENCE (KT): 0.0 Range:45.0 to 30.0 Scaled/Wgtd Val: 0.6/ 2.0

850-200 MB SHEAR (KT) : 10.2 Range:26.2 to 3.2 Scaled/Wgtd Val: 0.7/ 1.3

STD DEV OF IR BR TEMP : 999.0 Range:34.1 to 3.2 Scaled/Wgtd Val:999.0/999.0

D200 (10\*\*7m-1) : -21.8 Range:-21.0 to 165.0 Scaled/Wgtd Val: 0.0/ 0.0

200 MB HT-DRMK (KT) : 32.8 Range:33.8 to 126.5 Scaled/Wgtd Val: 0.0/ 0.0

850-700 MB REL HUM (%): 55.0 Range:56.0 to 85.0 Scaled/Wgtd Val: 0.0/ 0.0

Heat content (KJ/cm2): 0.0 Range:0.0 to 130.0 Scaled/Wgtd Val: 0.0/ 0.0

% area w/pixels <-30 C: 999.0 Range:17.0 to 100.0 Scaled/Wgtd Val:999.0/999.0

Prob of RI for 25 kt RI threshold= 999% is 999.0 times the sample mean(12.8%)

Prob of RI for 30 kt RI threshold= 999% is 999.0 times the sample mean( 8.4%)

Prob of RI for 35 kt RI threshold= 999% is 999.0 times the sample mean( 5.0%)

Prob of RI for 40 kt RI threshold= 999% is 999.0 times the sample mean( 3.4%)

**\*\* PROBLEY OF AT LEAST 1 SCNDRY EYEWL FORMTN EVENT AL142012 NADINE 09/21/2012 12 UTC \*\***

TIME(HR) 0-12 12-24(0-24) 24-36(0-36) 36-48(0-48)

CLIMO(%) 0 (0) 0 (0) 0 (0) 0 (0) <-- PROB BASED ON INTENSITY ONLY

PROB(%) 0 (0) 0 (0) 0 (0) 0 (0) PC4 UNAVAIL...MODEL SKILL DEGRADED



# Operational Products

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- Satellite Products
- Surface Products
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- Upper Air Products

**Radar Products**

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- [Barbados](#)
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- [Bermuda](#)
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- [Mexico](#)
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- [Trinidad & Tobago](#)
- [Puerto Rico/U.S. Virgin Islands](#)

**JPL HS3 Portal**

Links to Radars in Caribbean

Link to NASA Airborne Science Data Page

# Operational Products Example: NRL Tropics

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Radar Products

Satellite Products

CIMSS

GOES

METEOSAT9

NRL Tropics

Surface Products

Text Products

Upper Air Products

**Radar Products**

### 18LSANDY

AMSUB

SSMI

SSMIS

TRMM

WINDSAT

10/24/12 1800Z 18L SANDY  
10/24/12 2039Z F-15 85H  
10/24/12 2015Z GOES-13 VIS

10/26/12 1200Z 18L SANDY  
10/26/12 1509Z TRMM 85 PCT  
10/26/12 1440Z GOES-13 VIS

10/28/12 1800Z 18L SANDY  
10/28/12 1140Z WindSat COMPOSITE  
10/28/12 1115Z GOES-13 IR

Naval Research Lab [www.nrlmry.navy.mil/sat\\_products.html](http://www.nrlmry.navy.mil/sat_products.html)  
Red-37PCT Green-37V Blue-37H

Organized by invest,  
disturbance, or tropical  
storm/hurricane name



# Operational Products Example: CIMSS Tropical Overshooting Tops

HS3

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[Brightness Temp](#)

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[SAL](#)

[Shear](#)

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[Upper Level Winds](#)

Search

Fly To Find Businesses Directions

Fly to e.g., San Francisco

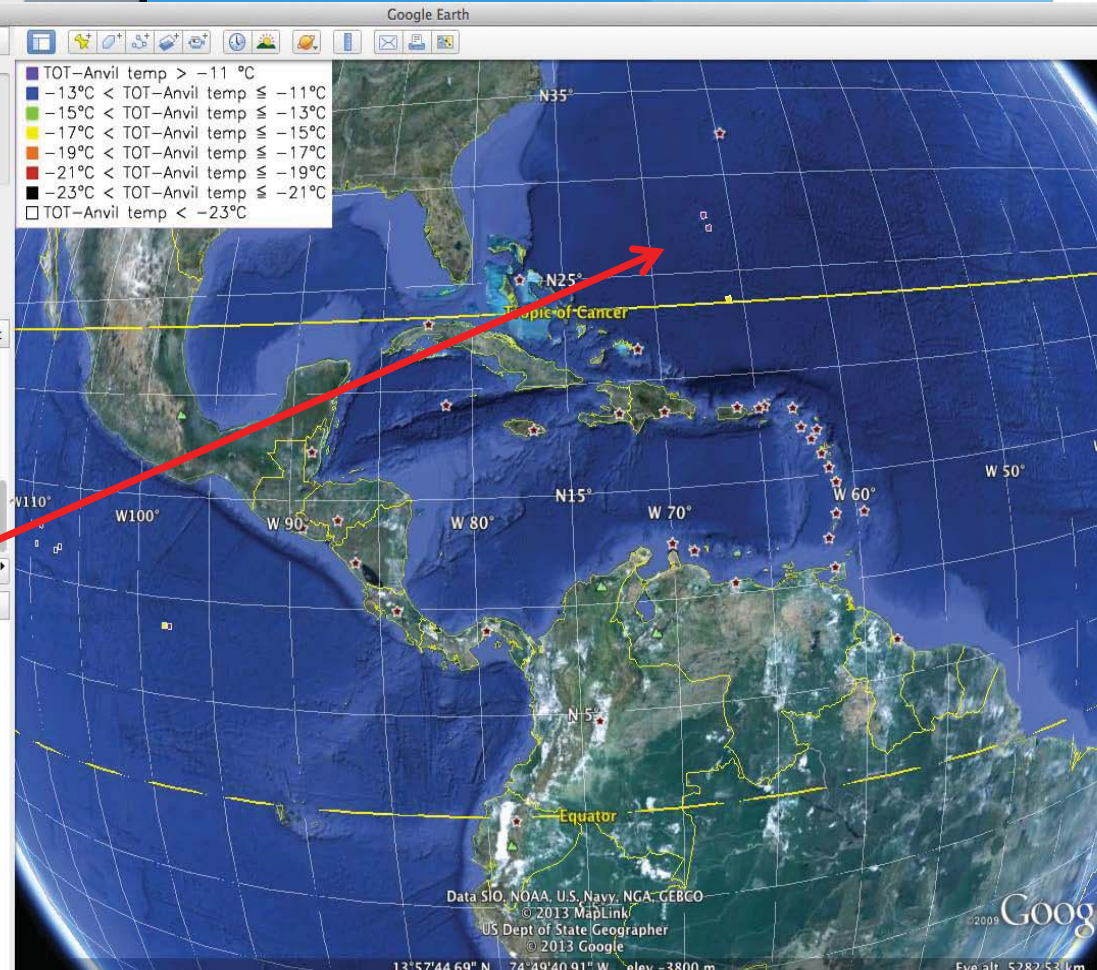
Places

Temporary Places

- ☐ Tropical Overshooting Tops ...
- ☐ Tropical Overshooting Tops ...
- ☐ Tropical Overshooting Tops ...
- ☐ Tropical Overshooting Tops ...
- ☐ Tropical Overshooting Tops ...
- ☐ Tropical Overshooting Tops ...
- ☒ Tropical Overshooting Tops ...
- ☐ Tropical Overshooting Tops ...

Layers

- ☒ Primary Database
- ☒ Borders and Labels
- ☒ Places
- ☒ Photos
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- ☐ Ocean
- ☐ Weather
- ☐ Gallery
- ☐ Global Awareness
- ☐ More
- ☒ Terrain



# Operational Products Example: CIMSS Brightness Temperatures

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[Cloud Height](#)

[Convergence](#)

[Divergence](#)

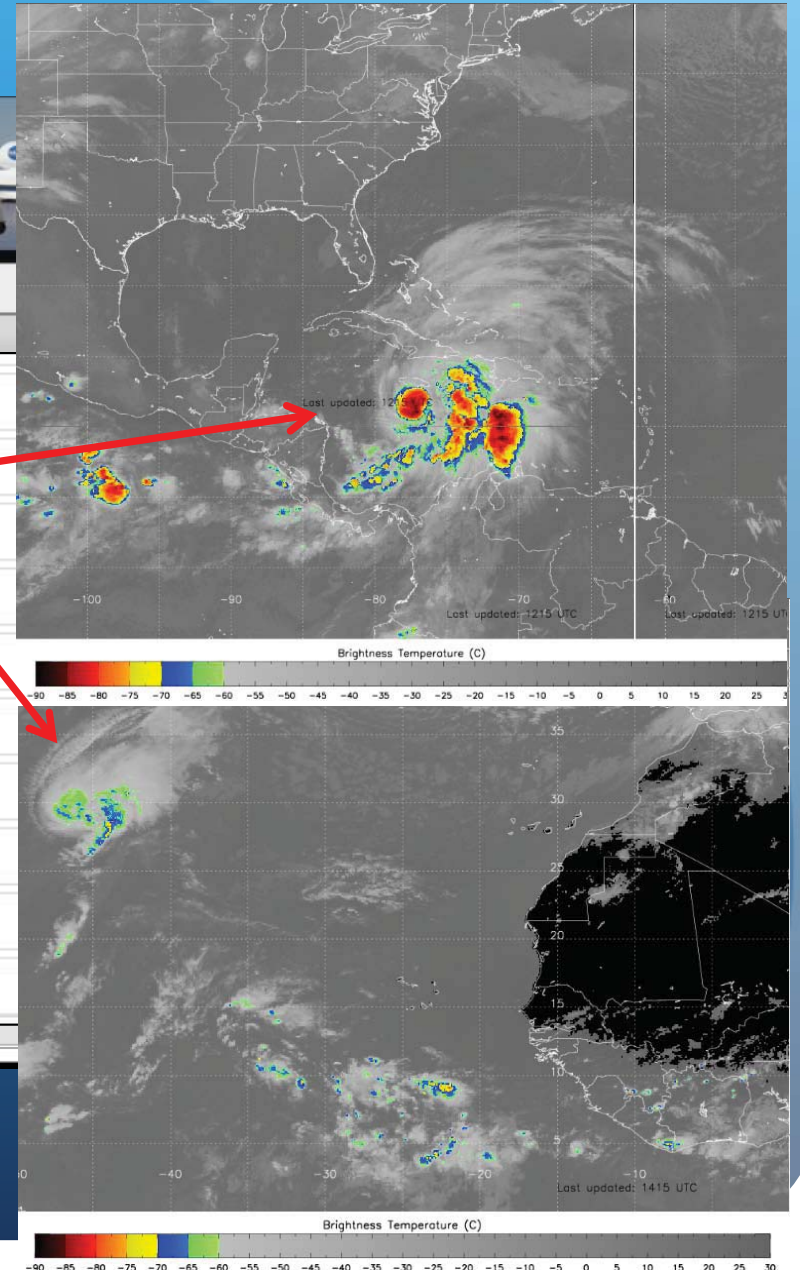
[Lower Level Winds](#)

[SAL](#)

[Shear](#)

[TOTs](#)

[Upper Level Winds](#)





# Research Products

Links provided to individual instrument pages:

- Gave PI's more control over how to distribute Quicklooks and data
- Also provided solution for limited storage for ftp site hosted at GSFC

HS3 2012 Global Hawk Dropsonde Data: dataset description

data.edc.nasa.gov

WebTADS ERA Interim, Daily Fields Labor Reports RAL Tropo...me Guidance CIMSS Tropical Cyclones NASA Directory SATERN NOMAD

EOS  
NCAR Earth Observing Laboratory

Codiac Dataset Contact Projects ORDER

### HS3 2012 Global Hawk Dropsonde Data

#### Summary

This data set contains Global Hawk dropsonde data from six research flights of the unmanned NOAA/NASA Global Hawk (GH) aircraft conducted between September 7 and 26, 2012 for the Hurricane and Severe Storm Sentinel (HS3) project. The GH is equipped with an NCAR/NOAA dropsonde system specially designed for remote operation. A total of 337 quality controlled soundings are contained in the final HS3 dropsonde data set.

#### Data access

ORDER data for delivery by FTP

#### Additional information

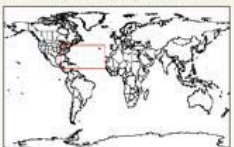
Related projects: HS3  
Observational frequency: criteria  
Spatial type: point  
Categories: Upper Air  
Platforms: Global Hawk Miniature Dropsonde  
Documentation: [readme\\_HS3-2012\\_GHdropsonde.pdf](#) [958 KB]

#### Temporal coverage

Begin datetime: 2012-09-07 00:00:00, End datetime: 2012-09-27 23:59:59

#### Spatial coverage

Minimum latitude: 13.493430, Minimum longitude: -88.437500  
Maximum latitude: 42.054820, Maximum longitude: -19.426530



#### Point of contact

NCAR/EOL  
EOL Data Support  
E-Mail address: [codiac@ucar.edu](mailto:codiac@ucar.edu)  
Homepage: <http://data.eol.ucar.edu/>

Contact: [EOL data server](#) | [Privacy policy](#) | [Email: codiac@ucar.edu](#)  
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## Data Products

- Model Products
- Operational Products
- Dropsonde Data
- CPL Data
- HAMSr Data
- S-HIS Data

Cloud Physics Lidar

cpl.gsfc.nasa.gov

WebTADS ERA Interim, Daily Fields Labor Reports RAL Tropo...me Guidance CIMSS Tropical Cyclones NASA Directory SATERN NOMAD

### Experiment Information:

The HS3 flights in September 2012 are the first in a series of science flights for HS3 using the NASA Global Hawk unmanned platforms. Two Global Hawk aircraft will be used to make measurements in and around hurricanes. One platform is outfitted with sensors to probe inside hurricanes. The other platform is outfitted to study the environment around hurricanes. Information on the HS3 mission, science objectives, and instrument payload can be found at the [HS3 web site](#). The HS3 flights are conducted out of Wallops Flight Facility in Wallops Island, Virginia.

#### CPL HS3 Flight Data

September 6, 2012
1st data segment (09:57:07 to 04:38:06 UTC)
2nd data segment (04:38:08 to 10:07:20 UTC)
3rd data segment (10:07:24 to 14:55:24 UTC)
September 11, 2012
1st data segment (11:27:56 to 17:43:54 UTC)
2nd data segment (17:43:56 to 23:13:55 UTC)
3rd data segment (23:13:57 to 06:13:57 UTC)
4th data segment (06:13:59 to 11:05:19 UTC)
September 14, 2012
1st data segment (15:05:53 to 21:50:54 UTC)
2nd data segment (21:50:56 to 02:35:55 UTC)
3rd data segment (02:35:55 to 07:50:56 UTC)
4th data segment (07:50:58 to 11:05:19 UTC)
September 19, 2012
1st data segment (19:02:08 to 01:01:37 UTC)
2nd data segment (01:01:39 to 07:01:38 UTC)
3rd data segment (07:01:40 to 13:06:04 UTC)
4th data segment (13:06:06 to 17:39:33 UTC)
September 22, 2012
1st data segment (18:09:18 to 00:51:13 UTC)
2nd data segment (00:51:15 to 06:06:15 UTC)
3rd data segment (06:06:17 to 11:38:17 UTC)
4th data segment (11:38:19 to 17:28:43 UTC)
September 26, 2012
1st data segment (10:52:10 to 18:06:55 UTC)
2nd data segment (18:07:10 to 00:06:56 UTC)
3rd data segment (00:07:10 to 05:06:57 UTC)
4th data segment (05:07:10 to 10:16:37 UTC)
October 6, 2012
1st data segment (13:21:52 to 19:19:43 UTC)
October 12, 2012
1st data segment (11:25:29 to 16:15:00 UTC)

data is not restricted. However, we do ask that everyone read and abide by the CPL data usage policy found here: [CPL data usage policy](#). In addition, please bear in mind that satellite teams have used, and they should be contacted before use or redistribution of validation data.

microwavescience.gsfc.nasa.gov

Jet Propulsion Laboratory  
California Institute of Technology

WebTADS ERA Interim, Daily Fields Labor Reports RAL Tropo...me Guidance CIMSS Tropical Cyclones NASA Directory SATERN NOMAD

### HS3 2012 Data

#### HS3 Dry Run Data

1st Data  
• [HS3 Dry Run Data \(PDF, 1.48 MB\)](#)

2nd Data  
• [HS3 Dry Run Data \(PDF, 1.48 MB\)](#)

#### HS3 2012 Data

1st Data  
• [HS3 2012 Data \(PDF, 1.48 MB\)](#)

2nd Data  
• [HS3 2012 Data \(PDF, 1.48 MB\)](#)

#### HS3 Dry Run Data

1st Data  
• [HS3 Dry Run Data \(PDF, 1.48 MB\)](#)

2nd Data  
• [HS3 Dry Run Data \(PDF, 1.48 MB\)](#)

download.ssec.wisc.edu/sys/login/form/hs3\_shis

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## SSEC Downloads

### Hurricane and Severe Storm Sentinel

#### Registered Users Login

Email Address:  Remember me: ☐

[Login to download files](#)

#### New users

[Register](#) to view Hurricane and Severe Storm Sentinel files

Problems with the website? [Contact the webmaster](#)

# What needs to happen to improve this year...

- Better communication with forecast team to provide/archive products that are used on a daily basis
- Archive of ground-based radar products
- Add in HIRAD and HIWRAP links when ready
- Add in NOAA products:
  - NHC Aircraft Reconnaissance Plan of the Day ([link](#))
  - NOAA HRD Updates
  - AOML SST analysis, TC Heat Potential
  - OPC Surface Analysis

# What needs to happen to improve this year...

“Many hands make light work.” - *John Heywood*

If you have products to share, let us know. The process to get products to us is very easy:

- 1.) Open a terminal window: `ftp meso.gsfc.nasa.gov`
- 2.) Enter “hs3” when prompted for name.
- 3.) Enter password when prompted.

At the 2012 meeting, there was lots of demand for a PREDICT-like page for HS3. We have the architecture in place, but need contributions from the team!



Questions???

Comments???

Suggestions???